

Figure 1

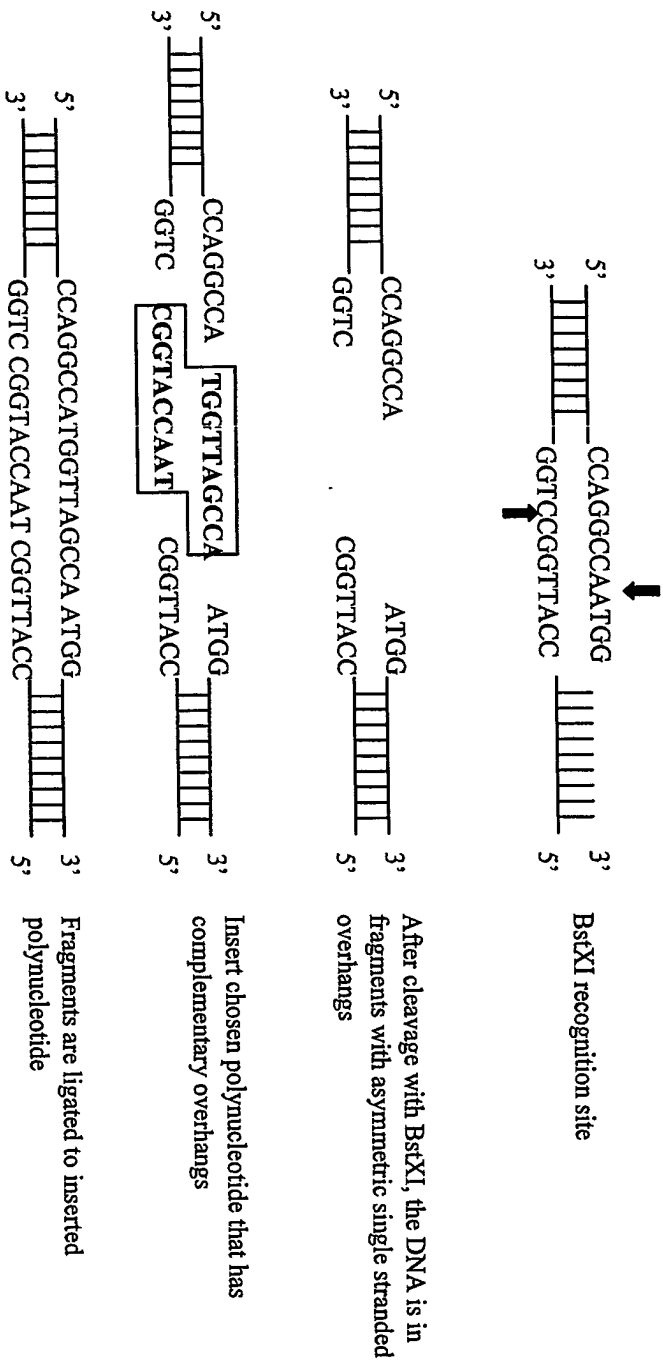
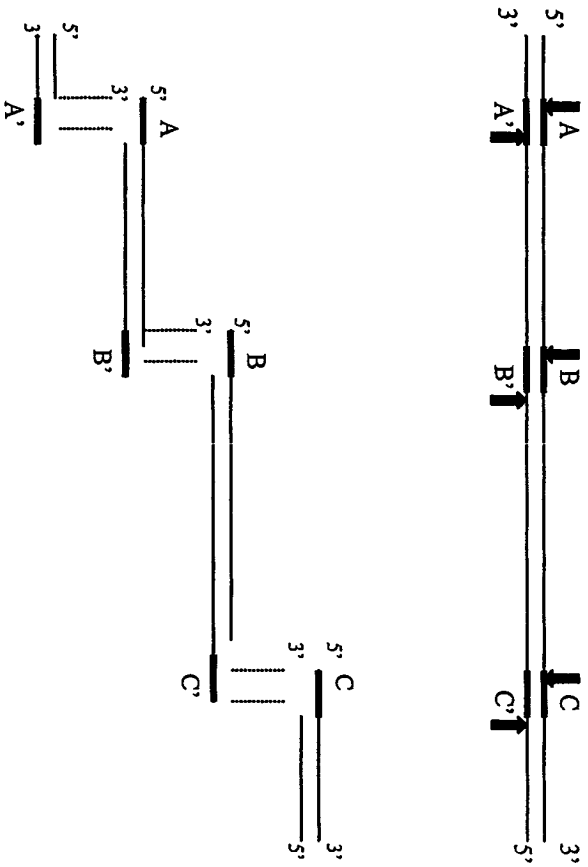


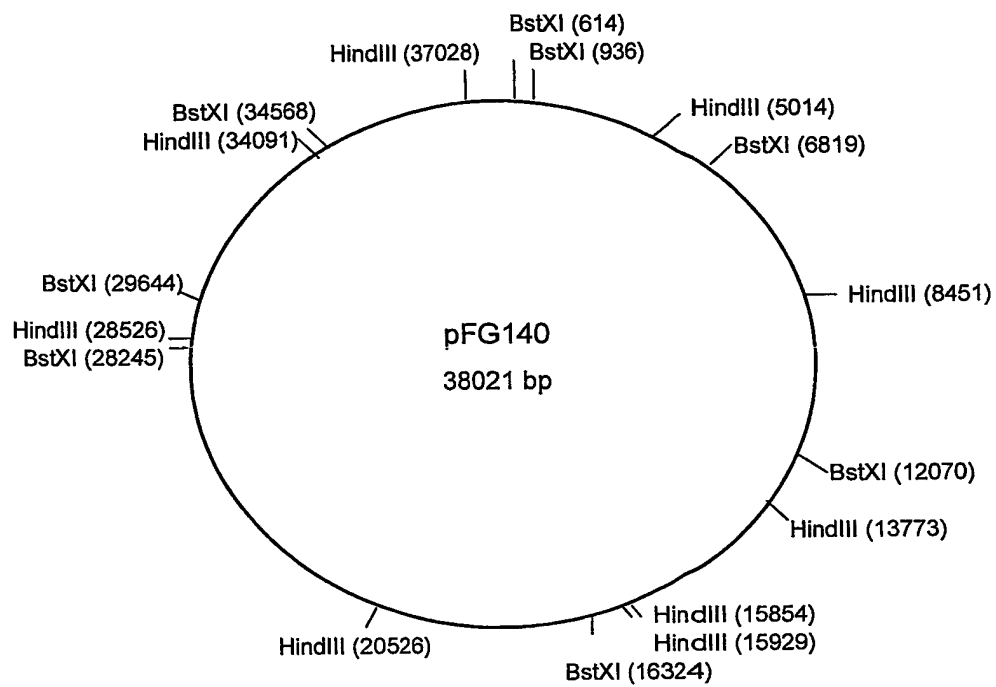
Figure 2



Use asymmetric endonuclease to cut DNA into fragments with asymmetric single stranded overhangs

Upon ligation, although the fragments are all together they will self assemble in the correct orientation because an asymmetric endonuclease generates unique single stranded overhangs.

Figure 3



BstXI cleavage sites

Fragment size: 322, 5883, 5251, 4254, 11921, 1399, 4924, 4067

HindIII cleavage sites

Fragment size: 614, 936, 6819, 12070, 16324, 28245, 29644, 34568, 5014, 8451, 13773, 15854, 15929, 20526, 28536, 34091, 37028

Figure 5

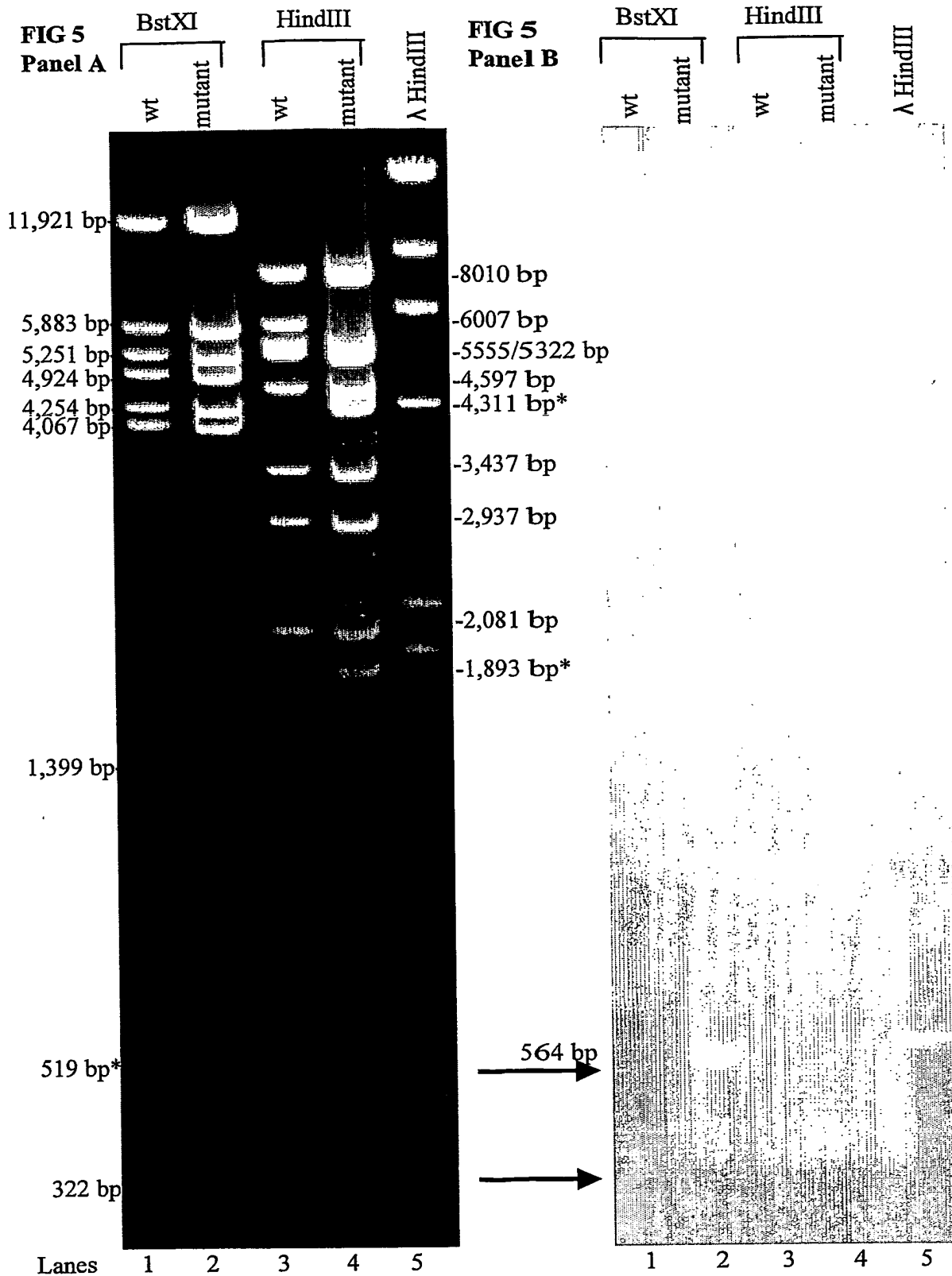


Figure 6

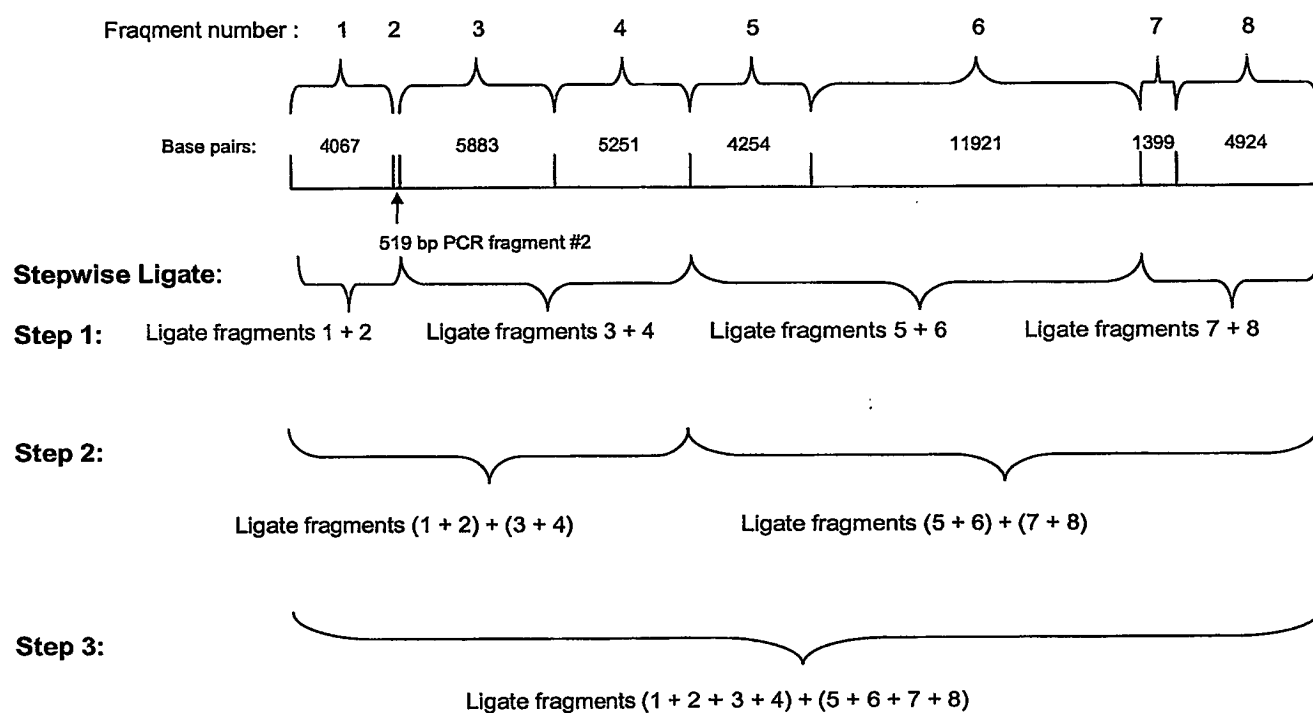
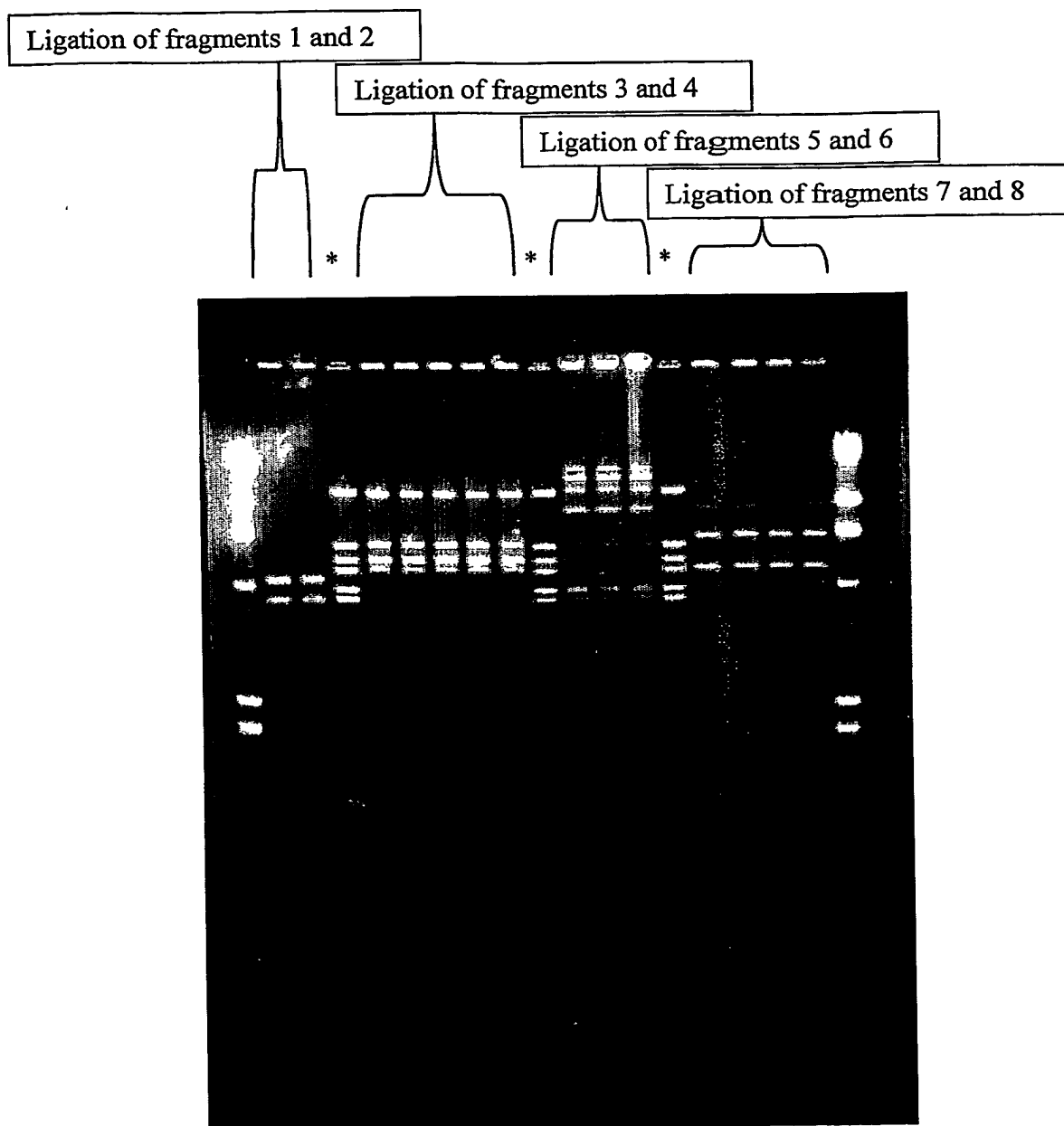


Figure 7



Indicates lanes with pFG140 BstXI fragment standards
Flanking lanes contain λ HindIII Mol. Wt. std.

Figure 8

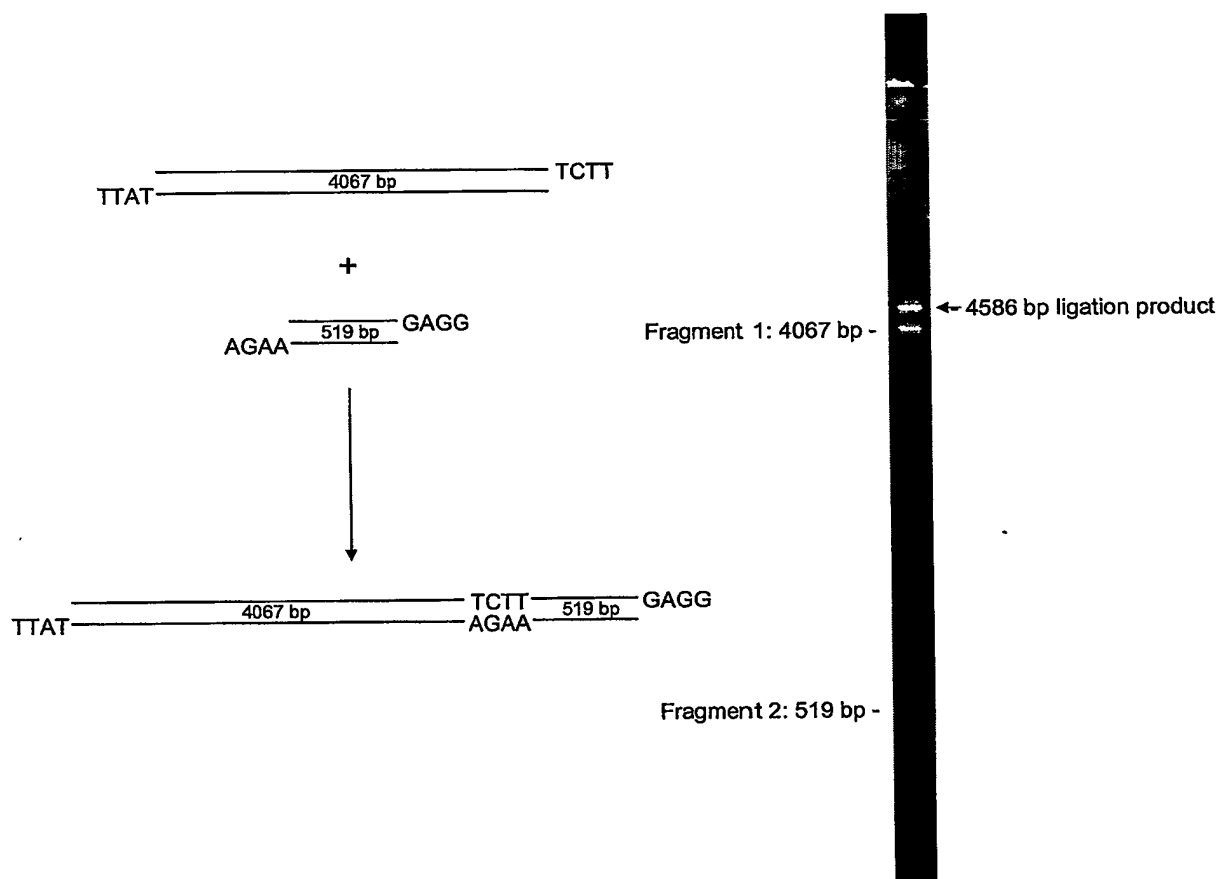


Figure 9

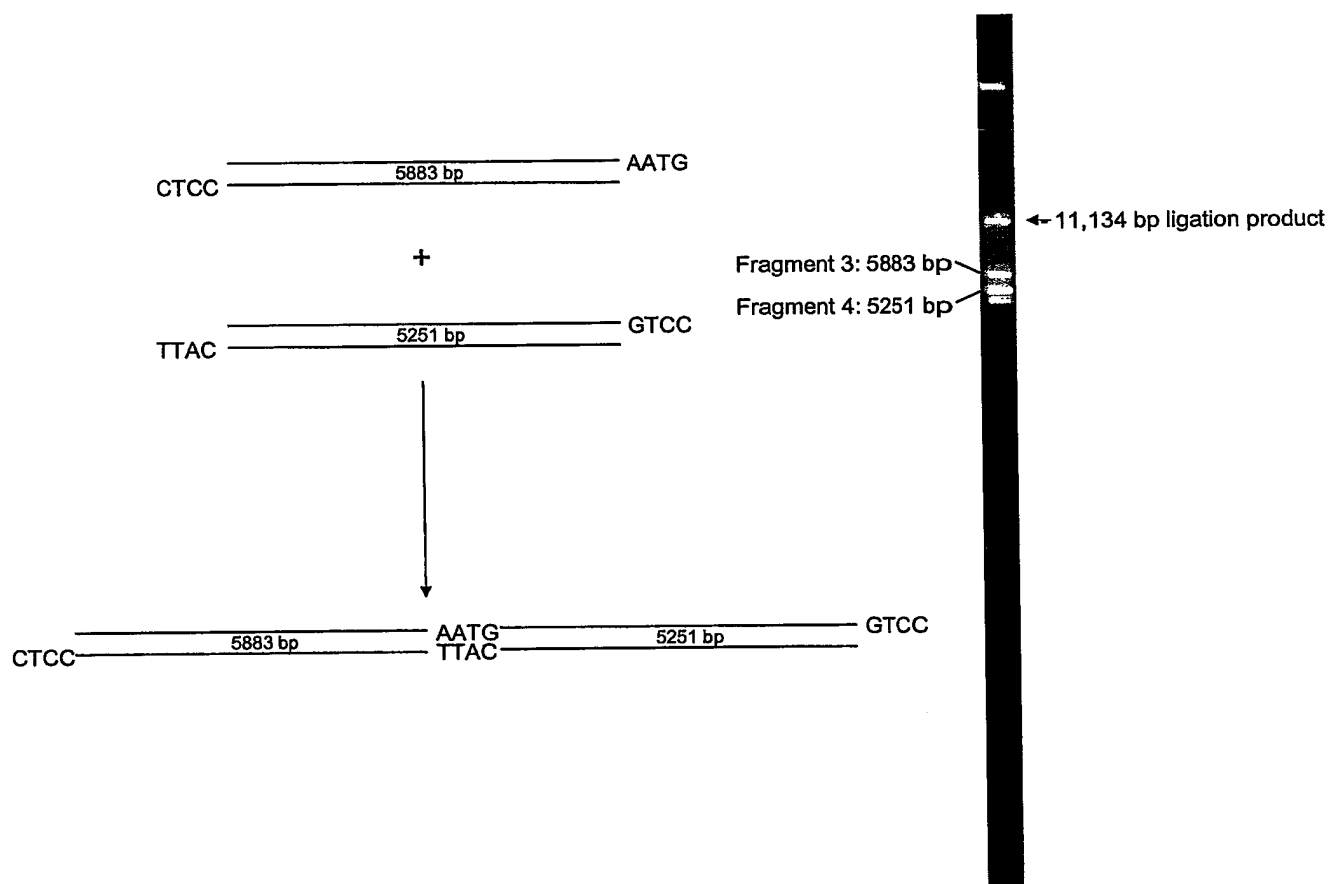
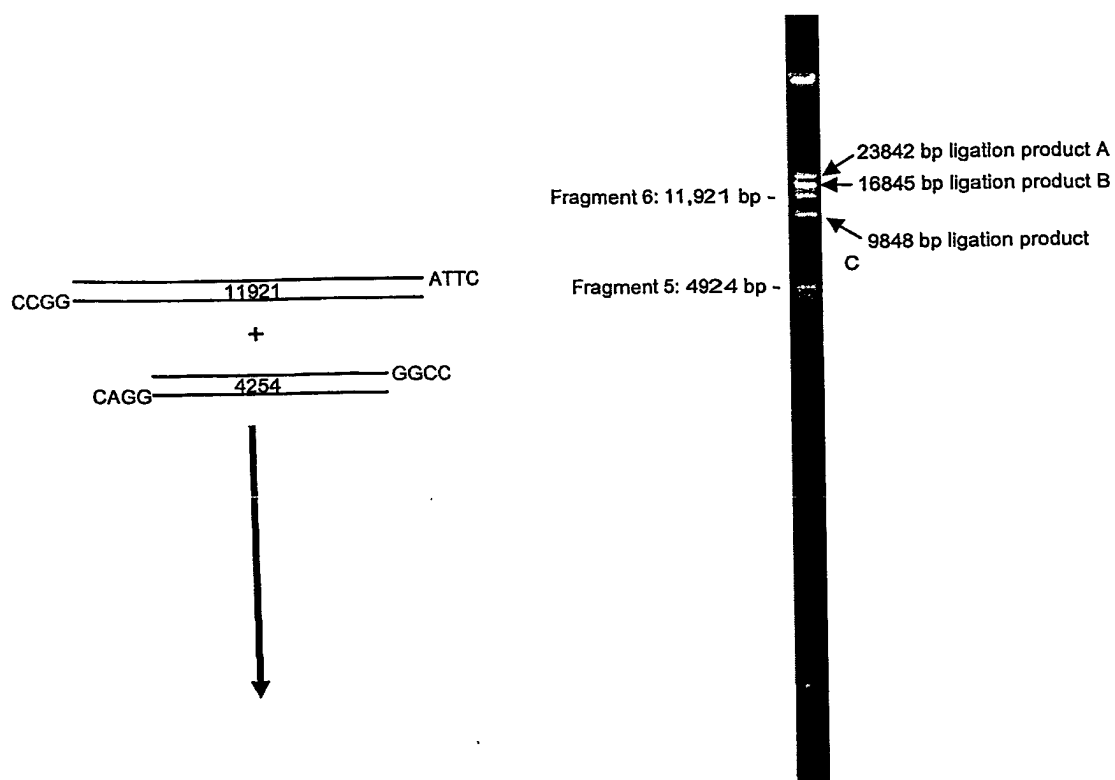
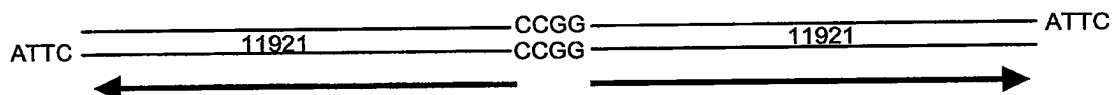


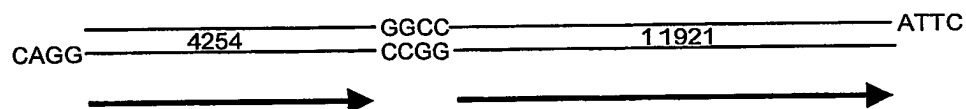
Figure 10



Ligation product A = 23842



Ligation product B = 16845



Ligation product C = 9848

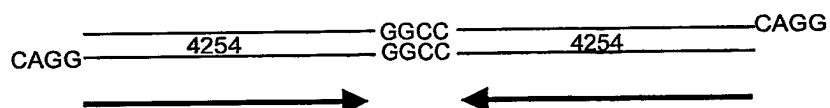


Figure 11

